

**ABSTRACT**

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The instant disclosure describes the application of genetic engineering techniques to produce cellulase in plants. Cellulase coding sequences operably linked to promoters active in plants may be transformed into the nuclear genome and/or the plastid genome of a plant. As cellulases may be toxic to plants, chemically-inducible or wound-inducible promoters may be employed. Additionally, the expressed cellulases may be targeted to vacuoles or other cellular organelles.